

AGENCY OF NATURAL RESOURCES

Waterbury, Vermont

ENVIRONMENTAL PROTECTION REGULATIONS

CHAPTER 5

AIR POLLUTION CONTROL

Subchapter II. Prohibitions

Subsection 5-253.3 Bulk Gasoline Plants

(a) Applicability.

- (1) This subsection shall apply to any bulk gasoline plant with an average daily throughput of 3,000 gallons or greater calculated on a 30-day rolling average. Any bulk gasoline plant with a throughput which is below the threshold shall comply with the requirements of paragraphs (b)(3)(vii),(viii) and (ix) only.
- (2) Any bulk gasoline plant that becomes or is currently subject to the requirements of this subsection shall remain so even if the throughput subsequently falls below the applicable threshold at a later date.

(b) Standards.

- (1) The owner or operator of a bulk gasoline plant shall equip the gasoline tank with a submerged fill pipe and a vapor balance system which shall operate between the storage tank and the incoming gasoline tank truck. The lines shall be equipped with fittings that are vapor-tight.
- (2) The owner or operator of a bulk gasoline plant shall equip the gasoline storage tank with a vapor balance system which shall operate between the gasoline storage tank and the outgoing gasoline tank truck. The vapor balance system shall be designed to prevent any vapors from passing to another loading rack.
- (3) The owner or operator of a bulk gasoline plant required to maintain and operate a vapor balance system under this subsection shall ensure that the following procedures are used during gasoline loading and unloading operations and in the storage of gasoline:

- (i) The vapor balance system shall be connected between the gasoline tank truck and the storage vessel during all transfer operations and the connection shall be vapor-tight;
- (ii) All storage tank openings, including inspection hatches and gauging and sampling devices, shall be vapor-tight when not in use;
- (iii) The gasoline tank truck compartment hatch covers shall remain closed during the transfer of gasoline;
- (iv) The vapor balance system shall be designed and operated at all times to prevent gauge pressure in the gasoline tank truck from exceeding 18 inches of water and vacuum from exceeding 5.9 inches of water during product transfer;
- (v) No pressure relief vacuum valve shall begin to open at a system pressure of less than 5.9 inches of water;
- (vi) All product transfers shall be limited to vapor-tight gasoline tank trucks;
- (vii) The filling of the storage vessel shall be accomplished by submerged fill only;
- (viii) The loading of the outgoing gasoline tank truck shall be accomplished by submerged fill only; and
- (ix) The owner or operator of the gasoline bulk plant or the gasoline tank truck shall observe the entire transfer procedure and shall discontinue transfer if any liquid or vapor leaks are observed.

(c) Inspection and monitoring requirements.

- (1) Each calendar month, the vapor balance system and each loading rack shall be inspected for liquid or vapor leaks during gasoline transfer operations. Detection methods using sight, sound or smell are acceptable. Each leak detected shall be repaired within 15 days of detection.
- (2) A pressure measurement device (liquid manometer, magnehelic gauge, or equivalent instrument) capable of measuring 20 in. of water gauge pressure within a $\pm .10$ inches of water precision, shall be calibrated and installed on the bulk gasoline plant vapor balance system at a pressure tap, located as close as possible to the connection with the gasoline tank truck, to allow determination of compliance with paragraph (b)(3)(iv).

- (d) Record keeping.
 - (1) The owner or operator of a bulk gasoline plant which is subject to this subsection shall maintain the following records for a minimum of three years:
 - (i) Daily records showing the quantity of gasoline transferred into all gasoline tank trucks.
 - (ii) A record of each monthly leak inspection shall be kept on file at the plant. The inspection records shall include but are not limited to:
 - (A) The date of inspection;
 - (B) Findings, including a description of leaks found, if any;
 - (C) Leak determination method;
 - (D) Corrective action taken; and
 - (E) The inspector's name and signature.
 - (2) The records shall be available for inspection during normal business hours and copies shall be provided to the Air Pollution Control Officer upon request.
- (e) Compliance. All bulk gasoline plants subject to this subsection shall comply with the requirements of this subsection by July 1, 1994.